PCS Clinical Audit Tool – User Guide

Version 1.2

APPENDICES G

COMMUNICARE DATA MAPPINGS 1.10

PEN COMPUTER SYSTEMS

HEALTH INFORMATICS 17 1993 - 2009

Microsoft CERTIFIED Partner

Company Contacts

Sydney (Head Office)

Pen Computer Systems
Level 1, 35 Moore St
LEICHHARDT NSW 2040

Phone: +61 2 9506 3200
Fax: +61 2 9566 1182
Email: enquiries@pencs.com.au
Web: www.pencs.com.au

Melbourne Office

Pen Computer Systems
Level 5
434 St Kilda Rd
MELBOURNE VIC 3004

Phone: +61 3 9866 8477
Fax: +61 3 9866 5699

Document Contact

Contact: **Christine Chidgey**

Phone: +61 3 9866 8477

Email: christine.chidgey@pencs.com.au

Document Control

Version	Date	Modified By	Description
1.0	15/02/2012	Nigel Patmore	Initial release for Communicare 12.5, CAT 3.3
1.1	26/06/2013	Ian Cartwright	Final release for Communicare 13.2, CAT 3.6.1
1.2	25/07/2013	Ian Cartwright	Communicare 13.3, CAT 3.6.1

Contents

INTRODUCTION 5
Clinical Audit Tool (CAT) 5
User Guide 5
IMPLEMENTED FUNCTIONALITY 6
Reference Date 6
Patient 7
Child Immunisation Status 7
nKPI Fully Immunised 7
Smoking Data 7
Alcohol Data 7
Prescription Count 7
Activity 8
Status 8
Pregnancy 8
Service Counts 8
Assigned Providers 9
Diagnoses/Conditions 9
Measurements 9
Procedures 9
Medications 10
Immunisations 10
Provider 10
Medicare Benefit Schedule 10
OSR Data 11
Practice Data 14
APPENDIX G – COMMUNICARE DATA MAPPINGS 15
APPENDIX G-1 – GENERAL 15
APPENDIX G-2 – PROCEDURES 16
APPENDIX G-3 – MEASUREMENTS 17
Pathology Results 17
APPENDIX G-4 – CONDITIONS 19
APPENDIX G-5 – MEDICATIONS 26
APPENDIX G-6 – IMMUNISATIONS 38
APPENDIX G-7 – Child Immunisations 40
APPENDIX G-8 – MBS ITEM Nos Included 41
REFERENCE APPENDIX: COMMUNICARE CUSTOM FIELDS MAPPING 41
Mapping to System Codes 41

INTRODUCTION

Clinical Audit Tool (CAT)

The Clinical Audit Tool (CAT) analyses clinical information from GP Clinical Desktop Systems. It translates data into real statistical and graphical information that is easy to understand and action. This allows practitioners to assess and improve the quality and completeness of patient information. The benefit to the practice is to assist with its ongoing accreditation and provide opportunities to grow practice income. The emphasis of the tool is to help practice staff to take specific action to improve patient coverage in chronic disease management and prevention.

User Guide

The purpose of the User Guide is to provide instructions on how to install and use the functionality provided by the CAT.

The User Guide is split into 2 parts:

- Part 1: Installation and Configuration including how to collect data sets
- Part 2: Functionality

The Appendices for each Clinical Desktop System's Data Mappings are provided separately.

This full User Guide is available from
http://help.pencs.com.au/cat.htm

The Appendices contained in this document are for the Communicare clinical system.

The document is current as of version 13.2 of Communicare, and later.

Implemented Functionality

Patient data is exported according to version 1.10 of the Pen Computer Systems Clinical Audit Tool specification.

However, the following features are out of scope:

- Colorectal screening
- FOBT test
- Antibiotics Systemic
- Antithrombotics > Anticoagulants
- Antithrombotics > Antiplatelets
- Anticoagulants > Dabigatran
- Lipid Modifying > Fibrates
- Gestational Diabetes
- Left Ventricular Hypertrophy
- Glucose 2H Tolerance Test
- Patient Smoking Quit Date
- Alternate MBS items for 715, 721 and 723
- Birth ethnicity
- Health Fund name and number
- Sexuality field

For compliance with nKPI reporting the following additional patient data from version 1.15 IS EXPORTED and **will be picked up by CAT**:

- Pregnancy – completed weeks at first antenatal visit (PI13)

Reference Date

The CAT export tool will export data from Communicare as of a reference date rather than the current date. By default, the reference date is set to the current date and time. The reference date can be set to a date in the past using the user interface, whereby all data occurring up to and including the reference date will be exported from Communicare. The time component of the reference date will be ignored except when run on today's date.

Running the CAT Export will generate a pair of XML files:

- An unidentified data file, and
- A Link XML file to identify the data should it be required.

The reference date will form part of the XML filenames. For example:

MedicalMicrodata-DEMO_ALL_LOCALITIES-201105112359-650-v1_10-data.xml

For a date in the past, the time portion will always be '2359' (i.e. 11:59pm). For today's date, the current time will be used.

The reference date is also recorded in the XML. For example:

<extract_date>2011-05-11T23:59:00.000Z</extract_date>

Note: This is not the date and time the export is run, unless the reference date is today.

Patient

Patients in Communicare with status of 'Fictitious' or 'Non Patient' are excluded from the export. All other patients who have joined the practice prior to or on the reference date will be exported. Patient data such as status, age, allergies, and child age in months, are calculated relative to reference date.

Child Immunisation Status

If the patient is a child between 6 months and 7 years old, the CAT Export will calculate the child's immunisation status. If the child had no overdue 'immunisation' recalls and no overdue 'immunisation review' recalls, or had a completed 'immunisation review' recorded that matches the type (based on age) specified in Appendix G-7, then they are counted as 'fully immunised'.

nKPI Fully Immunised

CAT will flag fully immunised to true as follows:

- A check of the actual immunisations given as last birthday meets the nKPI criteria **OR**
- The Immunisation Status flag indicates all immunisations have been given

Smoking Data

The most recent smoking status and smoking review date prior to and including reference date are exported. See 'Appendix G-1' for information regarding smoking status mapping details.

Alcohol Data

The most recent alcohol data (alcohol status, consumption frequency and consumption amount), along with the alcohol review date (relative to reference date), are exported. See 'Appendix G-1' for information regarding alcohol data mapping details.

Prescription Count

CAT Export will calculate the number of medications that had been prescribed as of the reference date, that had not been stopped or deleted, or were stopped or deleted only after the reference date.

Activity

A patient is considered 'active' if there have been at least three contact services (excluding No Client Contact services) provided in the two years prior to or on the reference date, by any provider.

Status

The Communicare patient status that was current as of the reference date is submitted as a patient's status:

- C=Current Patient
- T=Transient Patient
- B=Banned
- P=Past Patient
- D=Deceased
- F=Fictitious (not exported)
- N=Non Patient (not exported)

Pregnancy

A patient is counted as pregnant if they have a clinical item recorded with system code "PRE" and rule code of "PR-START" (normally Pregnancy Confirmed) recorded before the reference date and no clinical item recorded with system code "PRE" and rule code of "PR-END" (e.g. 'Normal vaginal delivery'), or one dated after the reference date. The values for the latest pregnancy LMP, gestation at birth, first antenatal visit, antenatal visits total, pregnancy statuses, and birth weights for this pregnancy are also exported.

Note: The Obstetrics tab will display 'Pregnancy outcome not recorded' or 'Pregnant (gestation unknown)' if the pregnancy gestation is >= 50 weeks or unknown, respectively. This status is not described in the export.

Service Counts

The following counts of services are calculated for each patient:

- A GP in the last 3, 6, and 12 months from the reference date
- A Dietician in the last 6 months from the reference date
- A Midwife in the last 6 months from the reference date
- A Podiatrist in the last 6 months from the reference date
- A Psychologist in the last 6 months from the reference date
- A Registered Nurse in the last 6 months from the reference date
- An AHW in the last 6 months from the reference date
- A Trainee Medical Practitioner in the last 6 months from the reference date

Assigned Providers

Each patient is exported with an Assigned Provider. This has no bearing on the activity status of the patient and is simply a means of trying to find the patient's regular doctor. The Enabled and Specialty properties of providers (and how often a patient has seen the provider) are used to determine Assigned Providers. See *File* | *Reference Tables* | *Providers* to view Enabled and Speciality properties of providers.

There are four rules for determining an assigned provider. If no provider is found from the first rule, the following rules are applied until a provider is found.

1) Active (enabled) provider, with speciality General Medical Practitioner, who has seen each patient the most number of times in the 18 months previous to (and including) the reference date.
2) Inactive (disabled) provider, with speciality General Medical Practitioner, who has seen each patient the most number of times in the 18 months (relative to the reference date) previous to (and including) the reference date.
3) Active (enabled) provider, with speciality General Medical Practitioner, who has seen each patient most recently in the 5 years (relative to the reference date) previous to (and including) the reference date.
4) Inactive (disabled) provider, with speciality General Medical Practitioner, who has seen each patient most recently in the past 5 years (relative to the reference date) previous to (and including) the reference date.

Diagnoses/Conditions

The CAT Export will export any diagnosis recorded on or previous to the reference date that has an ICPC code listed in the to the CAT Condition mapping table (see 'Appendix G-4'). If several diagnoses have been recorded for a patient that are in the same CAT Category, then only the earliest one of these is exported.

Measurements

The CAT Export will export measurement data recorded for each of the exported patients that matches CAT measurement mappings. Only measures belonging to clinical items dated prior to or on the reference date will be exported. Measurements take precedence over procedures; in other words, if a concept has been recorded as both a procedure and measurement in a patient's clinical record, then the date of the measurement is exported in preference to the date of the procedure (even if the date of the procedure is more recent than the date of the measurement). See 'Appendix G-3' for information regarding measure mapping details.

Procedures

The CAT Export will export procedure data recorded for each of the exported patients that matches CAT procedure mappings. Only procedures belonging to clinical items dated prior to or on the reference date will be exported. Measurements take precedence over procedures; in other words, if a concept has been recorded as both a procedure and measurement in a patient's clinical record, then the date of the measurement is

exported in preference to the date of the procedure (even if the date of the procedure is more recent than the date of the measurement). Procedures are only exported when there is no equivalent measurement to export. See 'Appendix G-2' for information regarding procedure mapping details.

Medications

The CAT Export will export medication data recorded for each of the exported patients that was prescribed on or before the reference date, and that matches CAT medication mappings. Only the latest medication from each medication group is listed. The active statuses of the medications are also calculated relative to the reference date e.g. a medication that was stopped after the reference date will be counted as active. See 'Appendix G-5' for information regarding medication mapping details.

Immunisations

The CAT Export will export immunisation data recorded for each of the exported patients as of the reference date that matches the CAT immunisation mappings. The immunisation data are grouped by the immunisation types. Note: An immunisation active status will always be set to 'True', unless it is a Fluvax immunisation that was done more than 12 months previous to the reference date. See 'Appendix G-6' for information regarding immunisation mapping details, and a definition of what is counted as a 'Fluvax' immunisation.

Provider

The CAT Export will export data for providers that were enabled as of the reference date. The total number of medications and the number of medications without reasons for each of the providers in the 3 months on or prior to the reference date are also exported.

Medicare Benefit Schedule

The CAT Export will export MBS items for each patient that belongs to a service that occurred prior to or on the reference date. Only MBS items included in the mapping (see 'Appendix G-8'), that have been recorded against a patient more than once are included; as are the most recent service date and provider.

OSR Data

The CAT Export will export certain patient related OSR (Online Services Report) data that occurred prior to or on the reference date. The following data (if available) is included:

Data	Related OSR Report
'Stolen Generation' generation • Determined by the most recent 'Stolen Generation' (central) qualifier from any clinical item. • Third and fourth generation are combined into 'Third and subsequent'.	SE-6, L-6
Number of contact episodes, excluding episodes while a client was in residential care. • Services are not counted if they are 'no client contact' services (according to Encounter Mode); 'waiting', 'booked' or 'cancelled'; services provided by providers with a speciality of 'transport worker' and services recorded using the Transport module. • See the 'Days in Residence' data element below for details of how residential care is determined.	CS-1, CS-3
Number of contacts by worker type / specialty • Worker type is determined by mapping provider specialty to the Workforce Classifications specified in the OSR data collecting instrument. • Transport ***Services*** module contacts are not included because they are anonymous and therefore cannot be related to a patient in a CAT export. • Transport ***Management*** module contacts are included (they are related to individual clients). • Services are not counted if they are 'no client contact' services (according to Encounter Mode); 'waiting', 'booked' or 'cancelled'.	CS-2
Number of MBS (Medicare Benefits Schedule) Item 715 health checks Determined by counting the number of 715 Medicare claim items attached to a patient's services.	CS-4, MCH-1

Data	Related OSR Report
Number of alternative indigenous adult health checks • This is the number of adult health checks that the patient has received with a system code of AHC. • If both a 715 and an AHC clinical item exist in the same service, then only the 715 is counted.	CS-4
Number of MBS Item 721 GP chronic disease management plans • Determined by counting the number of 721 Medicare claim items attached to a patient's services.	CS-4
Number of alternative indigenous child health checks • This is the number of child health checks that the patient has received with a system code of CHC	MCH-1
Number of MBS Item 10986 healthy kids checks • Determined by counting the number of 10986 Medicare claim items attached to a patient's services.	MCH-1
Number of mothers antenatal checks • Antenatal checks are identified by procedures with a PR-CHECK rule code, that is, all those item from the 'Antenatal Check' button of the obstetrics tab.	MCH-2
Number of SEWB (Social and emotional wellbeing) Program funded contacts • This is a count of the number of contacts that a patient has had with a provider with a specialty type of either 'BTH Counsellor' or 'Counsellor'. • Services are not counted if they are 'no client contact' services (according to Encounter Mode); 'waiting', 'booked' or 'cancelled'.	SE-6, SE-7
Number of Linkup Service contacts • This is the number of contacts that a patient has had with an encounter place containing BTH or LINK UP or a program containing BTH, BRINGING THEM HOME or LINK UP.	L6, L7
Number of contact episodes • This is how many episodes of health care that the patient has had. • Services are not counted if they are 'no client contact' services (according to Encounter Mode); 'waiting', 'booked' or 'cancelled'.	S-6

Data	Related OSR Report
Number of days spent in residence • This is the total days that the patient spent in a residential care facility. Residence is the period between an Enrolment clinical item and an Exit clinical item (export code of DA-EXIT). • Enrolments are identified by export code DA-ENROL with a 'Treatment delivery setting' qualifier (DA-TDS export code) set to 'Residential Treatment Facility'.	S-7, S-7a
Number of residential treatment episodes • Residential treatment is identified by enrolments. Enrolments are identified by export code DA-ENROL with a 'Treatment delivery setting' qualifier (DA-TDS export code) set to 'Residential Treatment Facility'.	S-7b
Number of sobering up/residential respite/short-term episodes • Sobering up/residential respite/short-term episodes are determined by the number of patient episodes with an export code of DR-ENROL or DA-SUOS.	S-10, S-11
Number of non-residential/follow-up/aftercare episodes • This is the number of patient episodes with an export code of DR-ENROL, DA-SUOS, DA-ENROL, DR-EXIT or DA-EXIT, but NOT any ending with –GRP. It also does not include any residential episodes. Non-residential/follow-up/aftercare episodes is a count episodes that have at least one clinical item recorded in a service, excluding residential care and groups, as identified by export codes 'DR-ENROL', 'DA-SUOS', 'DA-ENROL', 'DR-EXIT', 'DA-EXIT' and any code ending '-GRP' and excluding records during a period of residence.	S-13, S-14

Practice Data

The CAT Export will export the following data for the entire practice. Note: this data is not organisation specific; the totals are calculated across all organisations.

- Number of deceased patients in the month up to and including the reference date.
- Number of deceased patients in the month up to and including the reference date who are Aboriginal or Torres Strait Islander.
- Number of deceased patients in the month up to and including the reference date who are not Aboriginal or Torres Strait Islander.
- Number of OSR (Online Services Report) antenatal and maternal group activities up to and including the reference date. This data relates to OSR report MCH-3, and will produce a comma separated list of the group names with their counts. Antenatal and maternal group activities with an export code of:
    - MCH-GRPA will be resolved as 'Antenatal groups'.
    - MCH-GRPM will be resolved as 'Maternal and baby/child health groups'.
    - MCH-GRPP will be resolved as 'Parenting and parenting skills groups'.
    - MCH-GRP will be resolved as the name of the clinical item.
- Number of OSR (Online Services Report) health promotion group activites up to and including the reference date. This data relates to OSR report HP-1, and will produce a comma separated list of the group names with their counts. Health promotion group activites with an export code of:
    - HP-GRPT will be resolved as 'Tobacco use treatment/prevention groups'.
    - HP-GRPA will be resolved as 'Alcohol misuse treatment/prevention groups'.
    - HP-GRPP will be resolved as 'Physical activity/healthy weight activities'.
    - HP-GRPC will be resolved as 'Chronic disease client support groups'.
    - HP-GRPL will be resolved as 'Living skills groups'.
    - HP-GRPU will be resolved as 'Cultural groups'.
    - HP-GRPM will be resolved as 'Mens groups'.
    - HP-GRPW will be resolved as 'Womens groups'.
    - HP-GRPY will be resolved as 'Youth groups'.
    - HP-GRP will be resolved as the name of the clinical item.

APPENDIX G – COMMUNICARE DATA MAPPINGS

APPENDIX G-1 – GENERAL

CAT Field	Communicare Equivalent
Gender	Patient Biographics – Sex
Ethnicity	Patient Biographics – Aboriginality
DVA	Patient Biographics – DVA
Age	Patient Biographics – Date of Birth
Email	Patient Biographics – Email
Last Visit	Service Recording, Client contacts only
Postcode	Patient Biographics – Locality Postcode
Status	Patient Biographics – Patient Status at time of extract

CAT Allergy Value	Communicare Equivalent
Allergy Recorded	At least one record in Adverse Reaction Summary
No Known Allergies	Nil Known box checked on Adverse Reaction Summary
Nothing Recorded	No records and Nil Known box is unchecked on Adverse Reaction Summary

Smoking Status

The most recent Communicare qualifier with a system code of 'SMO' or 'SMP' (normally 'Smoking Status' and 'Smoking during Pregnancy') is used for the 'Smoking Status' field.

CAT Smoking Status	System Code of Qualifier Result
Smoker	S
Ex-smoker	E
Non-smoker	N

Alcohol Status

The most recent Communicare qualifier with a system code of 'ALC' or 'ALP' (normally 'Alcohol Consumption Level' and 'Alcohol Consumption during Pregnancy') is used for the 'Alcohol Status' field.

CAT Alcohol Status	System Code of Qualifier Result
Drinker	D
Non-drinker	N
Not recorded	-

Alcohol Consumption Frequency

The most recent Communicare qualifier with an export code of 'ALC-FRQ' (normally 'Alcohol Audit Interview Q1') is used for the 'Alcohol Consumption Frequency' field.

CAT Value	Communicare Export Code of Qualifier Result
Never in my life	N
1 day per month	M1
2 to 3 days per month	M3
3 to 4 days per week	W4
Every day	D

Alcohol Consumption Amount

The most recent Communicare qualifier with an export code of 'ALC-AMT' (normally 'Alcohol Audit Interview Q1') is used for the 'Alcohol Consumption Amount' field.

CAT Value	Communicare Export Code of Qualifier Result
2	2
4	4
6	6
9	9
10	10

APPENDIX G-2 – PROCEDURES

CAT Procedure	Communicare Equivalent
Eye Exam	Clinical item with ICPC code of **F30** or **F31**, and any term
Foot Exam	Clinical item with ICPC code of **L41** and any term
Spirometry	Clinical item with ICPC code of **R39** and term code of **004**
MMSE	Clinical item with ICPC code of **P43** and term code of **004**
Breast Screen	Clinical item with export code of **BREAST**
Pap Smear	Clinical item with export code of **PAPSMEAR**

APPENDIX G-3 – MEASUREMENTS

The most recent qualifier is used for each CAT measurement. The value of the qualifier and the date it was recorded is exported to CAT. Some measurements have an additional flag for service incentive payments. This flag is set if the particular measurement has been recorded in the previous six months and the previous six months before that.

Pathology Results

Pathology Results must be received in atomised HL7 format in order for the results to be picked up by Communicare and processed automatically into qualifiers. 'Atomised' format means that the HL7 results contain the data in predefined coded segments. The test name and LOINC (Logical Observation Identifiers Names & Codes) code are the important data the extraction tool looks for.

If an investigation request is matched to a result which is known to have certain qualifiers associated with it, these qualifiers will be linked through to the investigation result. This allows qualifiers that were automatically imported (via LOINC codes) to be reviewed while reviewing the result itself.

Numeric and true/false qualifiers are supported. Numeric qualifiers receive the numeric value coded by the laboratory in the result. True/false qualifiers receive the 'Abnormal' flag coded by the laboratory in the result. This means that the qualifier will record whether the lab declared the result to be abnormal, not the actual text returned by the lab.

CAT Measurement	Communicare Qualifier
Waist	'Waist Circumference' or any qualifier with system code **WCM**
Cholesterol	'Total Cholesterol Level' or any qualifier with system code **CHO**
HDL	'HDL level' or any qualifier with system code **HDL**
LDL	'LDL Level' or any qualifier with system code **LDL**
Triglycerides	'Triglyceride Level' or any qualifier with system code **TRG**
Creatinine	'Creatinine' or any qualifier with system code **CRU**
Urinary creatinine	'Urinary creatinine' or any qualifier with LOINC code **14683-7**
Microalbumin	'Albumin' or any qualifier with system code **ALB**
ACR (Microalbumin Creatinine Ratio)	'ACR (Alb/Creat Ratio)' or any qualifier with system code **ACR**
HbA1c	'HbA1c' or any qualifier with system code **HBA**
BP - Systolic	'BP - Systolic blood pressure' or any qualifier with system code **BPS**
BP - Diastolic	'BP - Diastolic blood pressure' or any qualifier with system code **BPD**
HbA1c	'HbA1c' or any qualifier with system code **HBA**
INR	'INR (International Normalised Ratio)' or any qualifier with system code **INR**
Random Blood Glucose	'Blood glucose level - random' or any qualifier with system code **BGR**
Fasting Blood Glucose	'Blood glucose level - fasting' or any qualifier with system code **BGF**
Height	'Height' or any qualifier with system code **HCM**
Weight	'Weight' or any qualifier with system code **WKG**

CAT Measurement	Communicare Qualifier
Birth Weight	Birth Weight from patient biographics. If this is not recorded, uses qualifier with system code **WGK**) recorded on day of birth.
BMI	'BMI' or any qualifier with system code **BMI**
Haemoglobin	'Haemoglobin' or any qualifier with system code **HBH**
Protein Creatinine Ratio	'PCR (Protein/Creatinine Ratio)' or any qualifier with system code **PCR**
Chlamydia Test	'Chlamydia result abnormal' or any qualifier with system code **XCL**
HIV Test	'HIV result abnormal' or any qualifier with system code **XHI**
Gonorrhoea Test	'Gonorrhoea result abnormal' or any qualifier with system code **XGN**
Syphilis Test	'Syphilis result abnormal' or any qualifier with system code **XSY**
Eye Exam	'Eye Exam' or any qualifier with export code of **EYEEXAM**
Foot Exam	'Foot Exam' or any qualifier with export code of **FOOTEXAM**
Pap Smear	'PAP smear done' or any qualifier with export code of **PAPSMEAR** OR Any clinical item with the export code of **PAPSMEAR** OR Any investigation request with description of **PAP SMEAR** **OR** Any investigation result that contains the following words: **PAP**, **CCSR** or **CYG** **OR** Any investigation result that contains the following phrases: **NON SCREENING SMEAR, GYNAECOLOGICAL CYTOLOGY, CYTOLOGY GYNAECOLOGICAL, CERVICAL CYTOLOGY, CERVICAL - CONVENTIONAL SMEAR, CERVICAL SMEAR, CYTOLOGY GYNAECOLOGICAL, CERVICAL SMR**

APPENDIX G-4 – CONDITIONS

The data collection process collects conditions that are found on the clinical record screen. Chronic conditions are flagged as true for a patient if the condition recorded in the patient's clinical record.

Conditions are mapped using ICPC Code and ICPC Term Code to determine if a condition is to be included.

CAUTION: This list of ICPC codes needs to be reviewed after each release of ICPC2-Plus to include new codes.

CAT Category	Communicare Mapping – ICPC Code
Diabetes	
Type II	T90 002 Diabetes mellitus T90 005 Non-insulin dependent diabetes T90 007 Adult onset diabetes T90 009 Type 2 diabetes T90 016 Type 2 diabetes treated with insulin
Type I	T89 001 Insulin dependent diabetes T89 002 Type 1 diabetes T89 003 Juvenile onset diabetes T89 004 Complicated diabetes T89 005 Diabetic coma T89 006 Diabetic hyperglycaemia
Undefined Diabetic	T99 011 Diabetes insipidus

Respiratory	
Asthma	R96 001 Asthma R96 002 Bronchial Asthma R96 005 Status Asthmaticus R96 007 Wheezy Bronchitis
COPD	R95 001 Chronic Obstructive Airway Disease R95 002 Chronic Obstructive Pulmonary Disease R95 008 Chronic airways limitation R79 003 Chronic bronchitis

Cardiovascular	
CHD	K41 005 Angiography; coronary K53 003 Angioplasty; artery; coronary K53 009 Stent(s); coronary K54 007 Graft; coronary Artery Bypass K74 001 Angina Pectoris K74 002 Pain; angina K74 003 Spasm; artery; coronary K74 004 Angina; unstable K74 006 Insufficiency; coronary K74 007 IHD with Angina K75 002 Infarction; myocardial; acute K75 004 Occlusion; coronary K75 013 Infarction; myocardial K75 014 Heart Attack K76 003 Coronary Artery Disease K76 005 Disease; atherosclerotic; heart K76 011 Disease; ischaem Heart; subacut K76 013 Coronary Heart Disease K76 014 Disease; ischaemic Heart K76 015 Disease; ischaem Heart; chronic K76 018 IHD Without Angina K84 009 Disease; heart
Acute Coronary Syndrome	K74 006 Insufficiency;coronary K74 001 Angina pectoris K74 004 Angina;unstable
Myocardial Infarction	K75 002 Infarction; myocardial; acute K75 013 Infarction; myocardial
Hypertension	K85 001 Elevated Blood Pressure K85 004 High Blood Pressure K85 007 Raised Blood Pressure K86 001 Hypertension; essential K86 004 Hypertension; uncomplicated K86 005 Hypertension K85 008 Hypertension; labile K87 002 Hypertension;renal disease K87 001 Hypertension;heart disease K87 003 Hypertension;nephropathy K87 004 Hypertension;malignant K87 005 Hypertension;LV hypertrophy K87 006 Hypertension;cardiorenal K87 007 Hypertensive encephalopathy K87 010 Hypertension;complicated K87 011 Hypertension;secondary

Cardiovascular	
Heart Failure	K77 001 Oedema; pulmonary; acute K77 002 Failure; congestive Cardiac K77 004 Failure; cardiac K77 008 Failure; ventricular; left K77 011 Failure; heart K77 013 Oedema; pulmonary K77 014 Failure; ventricular; right K82 003 Cor Pulmonale
Stroke	K90 002 Cerebrovascular Accident K90 006 Haemorrhage; cerebral K90 017 Stoke
Peripheral Vascular Disease	K92 003 Disease;peripheral vascular K92 004 Gangrene K92 005 Ischaemia;contracture K92 006 Ischaemia;limb(gangrene) K92 017 Claudication;intermittent K92 021 Thromboangitis obliterans K92 022 Stenosis;artery K92 025 Arteriosclerosis
Carotid Stenosis	K52 008 Endarterectomy;intern carotid K53 007 Stent(s);carotid K53 010 Angioplasty;cerebral K91 011 Stenosis;arterial;precerebral K91 014 Stenosis;artery;carotid
Renal Artery Stenosis	U99 028 Stenosis;artery;renal

Mental Health	
Depression	P76 001 Depression P76 002 Depression; postnatal P76 010 Depression; reactive P76 016 Depression; endogenous P76 017 Melancholia P76 018 Anxiety with Depression
Anxiety	P01 002 Feeling; anxious P01 003 Anxiety P01 010 Feeling; tense P01 018 Tense P74 001 Anxious State P74 002 Feeling' anxious P74 004 Anxiety Neurosis P76 018 Anxiety with Depression P79 009 Phobia
Schizophrenia	P72 002 Schizophrenia; paranoid P72 011 Schizophrenia
Bipolar	P73 002 Depression;manic P73 004 Disorder;bipolar P73 007 Manic depressive P73 012 Psychosis;manic depressive
ADHD	P81 001 Hyperkinetic syndrome P81 003 Disorder;attent deficit(hyper)
Autism	P99 005 Autism P99 006 Autism;child P99 010 Aspergers syndrome
Dementia	P70 001 Disease;Alzheimers P70 003 Dementia P70 004 Alzheimers dementia P70 007 Psychosis;senile P05 003 Senility

Bone Disease	
Osteoporosis	L95 001 Osteoporosis L95 002 Osteopenia L95 003 Fracture; osteoporotic
Osteoarthritis	L84 001 Spondylosis L84 004 Osteoarthritis; spine L89 001 Osteoarthritis; hip L90 001 Osteoarthritis; knee L91 003 Osteoarthritis L92 007 Osteoarthritis; shoulder

Renal	
Renal Impairment	U28 001 Transplant;renal U59 001 Dialysis; kidney (renal) U59 008 Haemodialysis U85 001 Polycystic kidney U88 001 Nephropathy U88 003 Nephrotic syndrome U88 008 Glomerulonephritis;chronic U88 010 Nephropathy;analgesic U88 011 Nephropathy;diabetic U88 012 Nephrosclerosis U99 005 Failure; renal; acute U99 006 Necrosis;renal U99 016 Uraemia U99 022 Insufficiency;renal U99 023 Failure;renal;chronic U99 024 Necrosis;renal;papillary U99 025 Pyelonephritis;chronic U99 028 Stenosis;artery;renal U99 030 Failure;renal;NOS U99 031 Disease;renal U99 032 Impairment;renal U99 034 Disease;kidney;chronic U99 035 Disease;kidney;chronic;stage 1 U99 036 Disease;kidney;chronic;stage 2 U99 037 Disease;kidney;chronic;stage 3 U99 038 Disease;kidney;chronic;stage 4 U99 039 Disease;kidney;chronic;stage 5

Renal	
Chronic Renal Failure	U28 001 Transplant;renal U59 001 Dialysis; kidney (renal) U59 008 Haemodialysis U85 001 Polycystic kidney U88 001 Nephropathy U88 003 Nephrotic syndrome U88 008 Glomerulonephritis;chronic U88 010 Nephropathy;analgesic U88 011 Nephropathy;diabetic U88 012 Nephrosclerosis U99 006 Necrosis;renal U99 016 Uraemia U99 022 Insufficiency;renal U99 023 Failure;renal;chronic U99 024 Necrosis;renal;papillary U99 025 Pyelonephritis;chronic U99 028 Stenosis;artery;renal U99 030 Failure;renal;NOS U99 031 Disease;renal U99 032 Impairment;renal U99 034 Disease;kidney;chronic U99 035 Disease;kidney;chronic;stage 1 U99 036 Disease;kidney;chronic;stage 2 U99 037 Disease;kidney;chronic;stage 3 U99 038 Disease;kidney;chronic;stage 4 U99 039 Disease;kidney;chronic;stage 5

Other	
Hyperlipidaemia	T93 001 Hypercholesterolaemia T93 006 High Cholesterol T93 008 Hyperlipidaemia T93 015 Dyslipidaemia
Chlamydia	X92 001 Chlamydia;F X92 002 Chlamydia;cervical

Other	
Drug Abuse	P18 001 Dependence;medicinal P18 002 Abuse;medicinal;dependent P18 003 Abuse;medicinal;non-depend P18 004 Withdrawal;drug;legal P18 005 Abuse;prescript drug;depend P18 006 Abuse;prescript drug;non-depen P18 007 Dependence;prescription drug P18 008 Drug seeking behaviour P19 001 Addiction;drug(s) P19 002 Dependence;drug(s) P19 003 Glue sniffing (habitual) P19 004 Psychosis;drug P19 005 Abuse;drug(s);dependent P19 006 Abuse;drug(s);non dependent P19 007 Abuse;drug(s);glue P19 008 Abuse;drug(s);other substance P19 009 Problem;drugs P19 010 Problem;substance related P19 011 Withdrawal;drug;illegal P19 012 Addiction;drug(s);heroin P19 013 Addiction;drug(s);amphetamine P19 014 Addiction;drug(s);ecstasy P19 015 Addiction;drug(s);marijuana P19 016 Addiction;drug(s);LSD P19 017 Addiction;drug(s);cocaine P19 018 Abuse;drug(s);heroin P19 019 Abuse;drug(s);amphetamine P19 020 Abuse;drug(s);ecstasy P19 021 Abuse;drug(s);marijuana P19 022 Abuse;drug(s);LSD P19 023 Abuse;drug(s);cocaine P19 024 Abuse;drug(s) P19 025 Withdrawal;drug P19 026 Overdose;drug;non medicinal P19 027 Abuse;kava P19 028 Abuse;solvent P19 029 Sniffing;petrol P19 030 Sniffing;paint P19 031 Intoxication;other substance

APPENDIX G-5 – MEDICATIONS

The data collection process collects medications that are found on the medication summary screen. It does not make any decisions about whether a medication should actually have been removed from the medication summary screen. The GP is responsible for making sure the list of medications is accurate.

Medication Group	Generic / Brand	Medication
Antiadrenergics - Alpha Blockers	-	Not currently supported
Antiadrenergics - Centrally Acting	-	Not currently supported
Antiarrhythmic – Class 1	-	Not currently supported
Antiarrhythmic - Sotalol	-	Not currently supported
ARB (A2 Receptor Blockers)	G	Irbesartan 1638 Candesartan cilexetil 1739 Telmisartan 2336 Eprosartan mesylate 2559 Losartan potassium 3186 Olmesartan medoxomil 4258 Valsartan 4318
ACE Inhibitors	G	Quinapril hydrochloride 107 Enalapril maleate 112 Captopril 114 Perindopril erbumine 117 Fosinopril sodium 122 Lisinopril dihydrate 125 Ramipril 126 Trandolapril 1227 Perindopril arginine 4220
Antidepressants - Tricyclic	-	Not currently supported
Antidepressants - Mao Inhibitors	-	Not currently supported
Antidiabetics - Glitazones	G	Rosiglitazone maleate 2773 Pioglitazone hydrochloride 2831
Antidiabetics - Metformin	G	Metformin hydrochloride 453

Medication Group	Generic / Brand	Medication
Antidiabetics - Insulin Hypoglycaemics	G	Glargine insulin 3799 Glulisine insulin 4265 Insulin, aspart (rys) 2761 Insulin, aspart (rys) protamine suspension 4043 Insulin, detemir (rys) 4143 Insulin, glargine 3798 Insulin, glulisine 4264 Insulin, isophane (rbe) 3956 Insulin, isophane (rys) 4025 Insulin, isophane bovine 4340 Insulin, lispro (rbe) 1517 Insulin, lispro (rbe) protamine suspension 3910 Insulin, neutral (rbe) 3954 Insulin, neutral (rys) 4343 Insulin, neutral bovine 4339 Isophane insulin (bovine) 4342 Isophane insulin (rys) 4026 Lispro insulin 1637 Neutral insulin (bovine) 4341
Antidiabetics - Oral Hypoglycaemics	G	Acarbose 1543 Glibenclamide 452 Gliclazide 455 Glimepiride 2779 Glipizide 456 Glyburide 1313 Metformin hydrochloride 453 Pioglitazone hydrochloride 2831 Repaglinide 2556 Rosiglitazone maleate 2773
Antihypertensives - Vasodilators	-	Not currently supported
Antithrombotics - Anticoagulants	G	Dabigatran etexilate 4387 Rivaroxaban 4390 Warfarin sodium 201
Antithrombotics - Antiplatets	G	Aspirin 197 Clopidogrel bisulfate 4338 Clopidogrel hydrogen sulfate 3180 Dipridamole 204 Ticlopidine hydrochloride 205
Aspirin	G	Aspirin 197

Medication Group	Generic / Brand	Medication
Warfarin	G	Warfarin sodium 201
Clopidogrel	G	Clopidogrel bisulfate 4338 Clopidogrel hydrogen sulfate 3180
Dabigatran	G	Dabigatran etexilate 4387
Beta Blockers - Antihypertensives	G	Atenolol 135 Betaxolol hydrochloride 785 Bimatoprost 3245 Bisoprolol fumarate 3117 Carvedilol 1634 Dobutamine hydrochloride 179 Dorzolamide hydrochloride 1516 Esmolol hydrochloride 132 Isoprenaline hydrochloride 181 Isoproterenol hydrochloride 1322 Labetalol hydrochloride 124 Levarterenol acid tartrate 1353 Metoprolol succinate 2995 Metoprolol tartrate 130 Noradrenaline acid tartrate 182 Oxprenolol hydrochloride 133 Pindolol 129 Prindolol 1367 Propranolol hydrochloride 134 Sotalol hydrochloride 153 Timolol maleate 131 Travoprost 3070
Beta Blockers - Chronic Heart Failure	G	Bisoprolol Fumarate 3117 Carvedilol 1634 Nebivolol 4484
	B	Toprol-XL 6956
Beta Blockers - Non-chronic Heart Failure	-	Not currently supported

Medication Group	Generic / Brand	Medication
Beta Blockers – Myocardial Infarction	G	Atenolol 135 Betaxolol Hydrochloride 785 Bisoprolol Fumarate 3117 Carvedilol 1634 Esmolol Hydrochloride 132 Labetalol Hydrochloride 124 Metoprolol 3968,2995,130 Nebivolol 4484 Oxprenolol Hydrochloride 133 Pindolol 129 Sotalol Hydrochloride 153
Calcium Antagonists	G	Amlodipine besylate 123 Diltiazem hydrochloride 115 Felodipine 109 Lercanidipine hydrochloride 2937 Nifedipine 108 Verapamil hydrochloride 113
Calcium Antagonists - Antihypertensives	-	Not currently supported
Calcium Antagonists - Rate Limiting	-	Not currently supported
Corticosteroid - Glucocorticoids	G	Beclomethasone dipropionate 714 Betamethasone acetate 396 Betamethasone dipropionate 875 Betamethasone sodium phosphate 397 Betamethasone valerate 874 Budesonide 717 Cortisol 1319 Cortisol acetate 1320 Cortisol sodium succinate 1321 Cortisone acetate 399 Dexamethasone 404 Dexamethasone sodium phosphate 400 Fluticasone furoate 4317 Fluticasone propionate 1230 Hydrocortisone 99 Hydrocortisone acetate 92 Hydrocortisone sodium succinate 405 Methylprednisolone acetate 403 Methylprednisolone sodium succinate 408 Prednisolone 402

Medication Group	Generic / Brand	Medication
Corticosteroid – Glucocorticoids (continued)	G	Prednisolone hexanoate 103 Prednisolone sodium phosphate 97 Prednisone 401 Triamcinolone acetonide 407
Corticosteroid - Mineralocorticoids	-	Not currently supported
Decongestant - Systemic	-	Not currently supported
Diuretics	G	Acetazolamide 787 Amiloride hydrochloride 137 Bumetanide 141 Chlortalidone 4356 Chlorthalidone 148 Eplerenone 4147 Ethacrynic acid 145 Frusemide 147 Hydrochlorothiazide 138 Indapamide hemihydrate 1041 Spironolactone 136 Triamterene 144
Diuretics - Antihypertensives	-	Not currently supported
Diuretics - Loop	-	Not currently supported
Diuretics - Potassium Sparring	-	Not currently supported
Diuretics - Thiazide	-	Not currently supported
Hormone Replacement Therapy - Combined	-	Not currently supported
Hormone Replacement Therapy – Oestrogen Only	-	Not currently supported
Lipid M/fying - Statins	G	Atorvastatin calcium 1627 Fluvastatin sodium 1474 Pravastatin sodium 171 Rosuvastatin calcium 4236 Simvastatin 167
Lipid M/fying - Fibrates	G	Fenofibrate 4029 Gemfibrozil 168
Lipid M/fying - Other	G	Cholestyramine 172 Colestipol hydrochloride 166 Ezetimibe 3818 Nicotinic acid 170

Medication Group	Generic / Brand	Medication
Mental Health - Antipsychotics	G	Amisulpride 3113 Aripiprazole 3817 Chlorpromazine hydrochloride 259 Clozapine 260 Droperidol 261 Flupenthixol decanoate 1194 Flupentixol decanoate 4368 Fluphenazine decanoate 262 Haloperidol 270 Haloperidol decanoate 263 Olanzapine 1542 Paliperidone 4287 Pericyazine 268 Prochlorperazine 322 Prochlorperazine maleate 320 Prochlorperazine mesylate 321 Quetiapine fumarate 2555 Quetiapine fumarate 2555 Risperidone 1196 Trifluoperazine hydrochloride 49 Zuclopenthixol acetate 1489 Zuclopenthixol decanoate 1521 Zuclopenthixol dihydrochloride 1559
Mental Health – Antipsychotics - Typical	G	Chlorpromazine hydrochloride 259 Droperidol 261 Flupenthixol decanoate 1194 Flupentixol decanoate 4368 Fluphenazine decanoate 262 Haloperidol 270 Haloperidol decanoate 263 Pericyazine 268 Prochlorperazine 322 Prochlorperazine maleate 320 Prochlorperazine mesylate 321 Trifluoperazine hydrochloride 49 Zuclopenthixol acetate 1489 Zuclopenthixol decanoate 1521 Zuclopenthixol dihydrochloride 1559

Medication Group	Generic / Brand	Medication
Mental Health – Antipsychotics - Atypical	G	Amisulpride 3113 Aripiprazole 3817 Clozapine 260 Olanzapine 1542 Paliperidone 4287 Quetiapine fumarate 2555 Risperidone 1196
Mental Health - Antidepressants	G	Amitriptyline hydrochloride 265 Citalopram hydrobromide 1630 Clomipramine hydrochloride 273 Desvenlafaxine 4388 Dosulepin hydrochloride 4364 Dothiepin hydrochloride 276 Doxepin hydrochloride 275 Duloxetine hydrochloride 4299 Escitalopram oxalate 3396 Fluoxetine hydrochloride 281 Fluvoxamine maleate 1547 Imipramine hydrochloride 277 Mianserin hydrochloride 283 Mirtazapine 2825 Moclobemide 274 Nortriptyline hydrochloride 272 Paroxetine hydrochloride 1181 Paroxetine mesilate 3123 Phenelzine sulfate 278 Reboxetine mesylate 3071 Sertraline hydrochloride 1224 Tranylcypromine sulfate 279 Trimipramine 282 Venlafaxine hydrochloride 1504
Mental Health – Mood Stabiliser - Lithium	G	Lithium carbonate 264 Lithium chloride 3286

Medication Group	Generic / Brand	Medication
Mental Health – Anti-anxiety	G	Alprazolam 255 Bromazepam 253 Buspirone hydrochloride 250 Chlorpromazine hydrochloride 259 Clobazam 252 Diazepam 248 Dosulepin hydrochloride 4364 Dothiepin hydrochloride 276 Doxepin hydrochloride 275 Escitalopram oxalate 3396 Gentian 4429 Gentiana lutea root dry 4427 Hops 4428 Humulus lupulus fruit dry 4426 Lorazepam 249 Mianserin hydrochloride 283 Oxazepam 247 Paroxetine hydrochloride 1181 Paroxetine mesilate 3123 Passiflora incarnata herb dry 4217 Passionflower 4218 Pericyazine 268 Sertraline hydrochloride 1224 Trifluoperazine hydrochloride 49 Trimipramine 282 Valerian 3541 Valeriana officinalis root dry 2485
Mental Health - Stimulants	G	Atomoxetine hydrochloride 3962 Dexamphetamine sulfate 284 Methylphenidate hydrochloride 285
Prohypertensives - Complementary Medicines	-	Not currently supported
Prohypertensives - Miscellaneous	-	Not currently supported
Respiratory – Asthma Inhaled	G	Beclomethasone dipropionate 714 Budesonide 717 Ciclesonide 4125 Fluticasone propionate 1230

Medication Group	Generic / Brand	Medication
Respiratory – Asthma Relievers	B	Ventolin Obstetric Injection (Injection) 815 Ventolin (Syrup) 1281 Ventolin (Injection) 1281 Airomir Autohaler and Inhaler (Autohaler) 4009 Airomir Autohaler and Inhaler (Inhaler) 4009 Asmol CFC-free Inhaler (Inhaler) 4114 Asmol uni-dose (Nebulising Solution) 3363 Butamol (Nebuliser solution) 7147 Chemmart Salbutamol (Nebulising Solution) 6004 Combivent Metered Dose Aerosol (Inhaler) 4792 Epaq Inhaler (Inhaler) 5558 GenRx Salbutamol Inhalation Ampoule (Nebulising Solution) 6006 Pharmacor Salbutamol (Nebulising solution) 8000 Salbutamol Inhalation Solution (Nebulising Solution) 1295 Salbutamol Inhalation Solution (Nebulising Solution) 1295 Salbutamol Sandoz (Nebulising solution) 7999 Salbutamol-GA (Nebulising solution) 8001 Terry White Chemists Salbutamol (Nebulising Solution) 6008 Ventolin CFC-free Inhaler (Inhaler) 4115 Ventolin Respirator Solution and Nebules (Nebulising Solution) 1296 Ventolin Respirator Solution and Nebules (Nebulising Solution) 1296 Ventolin Rotacaps (Powder for Inhalation) 2982 Bricanyl Elixir and Injection (Elixir) 1266 Bricanyl Elixir and Injection (Injection) 1266 Bricanyl for Inhalation (Turbuhaler) 1288 Bricanyl for Inhalation (Nebulising Solution) 1288 Aeron (Nebuliser solution) 7315 APO-Ipratropium (Nebuliser solution) 8203 Apoven (Nebuliser Solution) 5559 Atrovent Metered Aerosol (CFC-free) (Metered aerosol) 6818 Atrovent Nebulising Solution (Inhalation Solution) 1284

Medication Group	Generic / Brand	Medication
Respiratory – Asthma Relievers (continued)	B	Atrovent Nebulising Solution (Unit Dose Vials) 1284 Chemmart Ipratropium (Nebuliser solution) 5440 Combivent Metered Dose Aerosol (Inhaler) 4792 GenRx Ipratropium (Nebuliser solution) 5442 Ipratrin uni-dose (Nebulising Solution) 3609 Ipravent Inhalation Solution (Multidose) (Nebuliser solution) 7114 Ipravent Inhalation Solution (Unit dose) (Inhalation solution) 5505 Terry White Chemists Ipratropium (Nebuliser solution) 5446 Atrovent Nasal, Atrovent Nasal Forte (Nasal Spray) 3369 Atrovent Nasal, Atrovent Nasal Forte (Nasal Spray) 3369
Respiratory - Asthma Symptom Controllers	B	Serevent (Inhaler) 2673 Serevent (Inhaler) 2673 Seretide (Powder for Inhalation) 5264 Seretide (Powder for Inhalation) 5264 Seretide (Powder for Inhalation) 5264 Seretide (Inhaler (CFC-free)) 5264 Seretide (Inhaler (CFC-free)) 5264 Seretide (Inhaler (CFC-free)) 5264 Foradile (Powder for inhalation) 3590 Oxis Turbuhaler (Turbuhaler) 3764
Respiratory - Asthma Preventers	B	Qvar (Inhaler) 5241 Qvar Autohaler Inhaler (Inhaler) 5241 Pulmicort (Turbuhaler) 1293 Alvesco 80 metered dose inhaler (Metered dose inhaler) 7317 Alvesco 160 metered dose inhaler (Metered dose inhaler) 7317 Flixotide Junior (CFC-Free) Inhaler (Metered Dose Inhaler (CFC-Free) 2948 Flixotide Inhaler (CFC-Free) (Metered Dose Inhaler (CFC-Free) 2948 Flixotide Junior Accuhaler Inhaler (Dry Powder Inhaler) 2948

Medication Group	Generic / Brand	Medication
Respiratory - Asthma Preventers (continued)	B	Flixotide Accuhaler Inhaler (Dry Powder Inhaler) 2948 Flixotide Junior Inhaler (CFC containing) (Metered Dose Inhaler) 2948 Flixotide Nebules (Nebuliser solution) 4917 Intal (Nebulising Solution) 1289 Intal CFC-Free Inhaler (Inhaler) 4736 Intal Forte CFC-Free Inhaler (Inhaler) 4736 Intal Spincaps Powder (Powder for Inhalation) 7422 Intal Spinhaler (Inhalation Device) 7422 Tilade CFC-Free (Inhaler) 4814 Singulair (Tablets) 3977 Accolate (Tablet) 4036
Respiratory - Asthma Combination	B	Seretide MDI (50/25) (Inhaler (CFC-free)) 5264 Seretide MDI (125/25) (Inhaler (CFC-free)) 5264 Seretide MDI (250/25) (Inhaler (CFC-free)) 5264 Seretide Accuhaler (100/50) (Powder for Inhalation) 5264 Seretide Accuhaler (250/50) (Powder for Inhalation) 5264 Seretide Accuhaler (500/50) (Powder for Inhalation) 5264 Symbicort Turbuhaler 100/6 (Powder for Inhalation) 6540 Symbicort Turbuhaler 200/6 (Powder for Inhalation) 6540 Symbicort Turbuhaler 400/12 (Powder for Inhalation) 6540
Respiratory – Asthma Oral Steroids	B	Cortate (Tablets) 672 Panafcort, Panafcortelone (Tablets) 688 Predsone, Predsolone (Tablets) 7072 Sone (Tablets) 691
Respiratory - COPD	G	Tiotropium bromide 3390
Pain Relief - NSAIDS	G	Celecoxib 2333 Diclofenac diethylammonium 1226 Diclofenac potassium 356 Diclofenac sodium 348 Etoricoxib 3252 Ibuprofen 341

Medication Group	Generic / Brand	Medication
Pain Relief – NSAIDS (continued)	G	Ibuprofen lysine 4049 Indomethacin 226 Ketoprofen 352 Ketorolac trometamol 355 Mefenamic acid 350 Meloxicam 2841 Naproxen 349 Naproxen sodium 351 Parecoxib sodium 3112 Piroxicam 347 Sulindac 344 Tiaprofenic acid 353
Pain Relief - COX2	G	Celecoxib 2333 Etoricoxib 3252 Meloxicam 2841 Parecoxib sodium 3112
Tumour Necrosis - Factor Antagonists	-	Not currently supported
Opioid - Weak	-	Not currently supported
Antibiotic - Systemic	-	Not currently supported

APPENDIX G-6 – IMMUNISATIONS

Immunisations are collected if they have been entered in the clinical record as an Immunisation clinical item type and have a clinical item type description containing the immunisation name. The check for matching description is case insensitive.

CAT Immunisation	Communicare Mapping – Immunisation Name
Fluvax	FLUVAX FLUARIX FLUAD FLUVIRIN INFLUENZA INFLUVAC VAXIGRIP VAXIGRIP JUNIOR
Panvax	PANVAX
Gardasil	GARDASIL
Pertussis	ADACEL BOOSTRIX BOOSTRIX IPV DTP PERTUSSIS
Pneumovax	PNEUMOVAX PNEUMOVAX 23 PREVENAR PREVENAR 13 SYNFLORIX
Hepatitis A	AVAXIM HAVRIX HAVRIX JUNIOR HEPATITIS A TWINRIX TWINRIX 360/10 TWINRIX JUNIOR VAQTA VAQTA

CAT Immunisation	Communicare Mapping – Immunisation Name
Hepatitis B	COMVAX ENGERIX B ENGERIX B (PAEDIATRIC) ENGERIX B(PAEDIATRIC) HB-VAX II HBVAX II (PAEDIATRIC) H-B-VAX II(PAEDIATRIC) HEPATITIS B INFANRIX HEP B INFANRIX HEXA INFANRIX PENTA TWINRIX TWINRIX 360/10 TWINRIX JUNIOR
DTPA	INFANRIX INFANRIX HEP B INFANRIX HEXA INFANRIX IPV INFANRIX PENTA PEDIACEL POLIACEL QUADRACEL TRIPACEL TRIPACELTRIPLE ANTIGEN TRIPLE ANTIGEN
HIB	ACTHIB COMVAX HEXALIQUID PEDVAXHIB HIBERIX HIBTITER INFANRIX INFANRIX HEXA LIQUID PEDVAZHIB PEDIACEL PEDVAX HIB POLIACEL
Polio	INFANRIX HEXA INFANRIX IPV INFANRIX PENTA IPOL ORAL POLIO PEDIACEL POLIACEL POLIO SABIN(ORAL) QUADRACEL

CAT Immunisation	Communicare Mapping – Immunisation Name
Prevenar	PREVENAR
Rotavirus	ROTATEQ ROTARIX
MMR	MMR MMR-II PRIORIX
MENCCV	MENCCV MENINGITEC MENJUGATE NEISVAC-C
VZV	VARICELLA VARILRIX VARIVAX REFRIGERATED VZV

APPENDIX G-7 – Child Immunisations

A child is counted as being fully immunised if they have no overdue 'immunisation' recalls and no overdue 'immunisation review' recalls, or a completed 'immunisation review', that occurred before or on the reference date, appropriate to the child's age as of the reference date, as per the table below. This logic was taken from the **H4L version 3.3 specification (March 2009)**

Child's Age	Immunisation required, by clinical item type description
6 or 7 months inclusive	'REVIEW;IMMUNISATION;BIRTH' or 'REVIEW;IMMUNISATION;2 MONTH' or 'REVIEW;IMMUNISATION;4 MONTH' or 'REVIEW;IMMUNISATION;6 MONTH'
8 or 9 months inclusive	'REVIEW;IMMUNISATION;2 MONTH' or 'REVIEW;IMMUNISATION;4 MONTH' or 'REVIEW;IMMUNISATION;6 MONTH'
10 or 11 months inclusive	'REVIEW;IMMUNISATION;4 MONTH' or 'REVIEW;IMMUNISATION;6 MONTH'
12 to 17 months inclusive	'REVIEW;IMMUNISATION;6 MONTH' or 'REVIEW;IMMUNISATION;12 MONTH'
18 to 23 months inclusive	'REVIEW;IMMUNISATION;12 MONTH' or 'REVIEW;IMMUNISATION;18 MONTH'
24 to 53 months inclusive	'REVIEW;IMMUNISATION;18 MONTH' or 'REVIEW;IMMUNISATION;4 YEAR'
54 to 71 months inclusive	'REVIEW;IMMUNISATION;4 YEAR'

APPENDIX G-8 – MBS ITEM Nos Included

The following MBS Nos are exported by the CAT tool: 700, 702, 703, 704, 705, 706, 707, 708, 709, 710, 715, 717, 721, 723, 725, 727, 729, 731, 732, 900, 903, 2702, 2710, 2712, 2713, 2517, 2518, 2521, 2522, 2525, 24526, 2620, 2622, 2624, 2631, 2633, 2635, 2546, 2547, 2522, 2533, 2558, 2559, 2664, 2666, 2668, 2673, 2675, 2677.

REFERENCE APPENDIX: COMMUNICARE CUSTOM FIELDS MAPPING

This Appendix explains how to map custom fields back to standard Communicare fields so they can be extracted by CAT. This process makes use of Communicare system codes. Some data items do not currently have system codes. These may be reviewed and added in a future release.

Mapping to System Codes

Example: We have a custom qualifier called *Waist Measurement* and we want to link it the standard Communicare qualifier called *Waist Circumference* so it will be collected by the CAT extractor. The system code mapping for waist listed in this document is **WCM**.

To link a custom qualifier to a standard Communicare qualifier follow the steps below:

Step 1: Locate the standard Communicare qualifier you want to link to and write down the value of the following fields: *System Code*, *Value Type* and *Units*

- The Qualifier Type Maintenance screen is accessed from the File > Reference Tables > Qualifier Types menu option (Figure 1) or by pressing Ctrl+Alt+Q shortcut key combination.

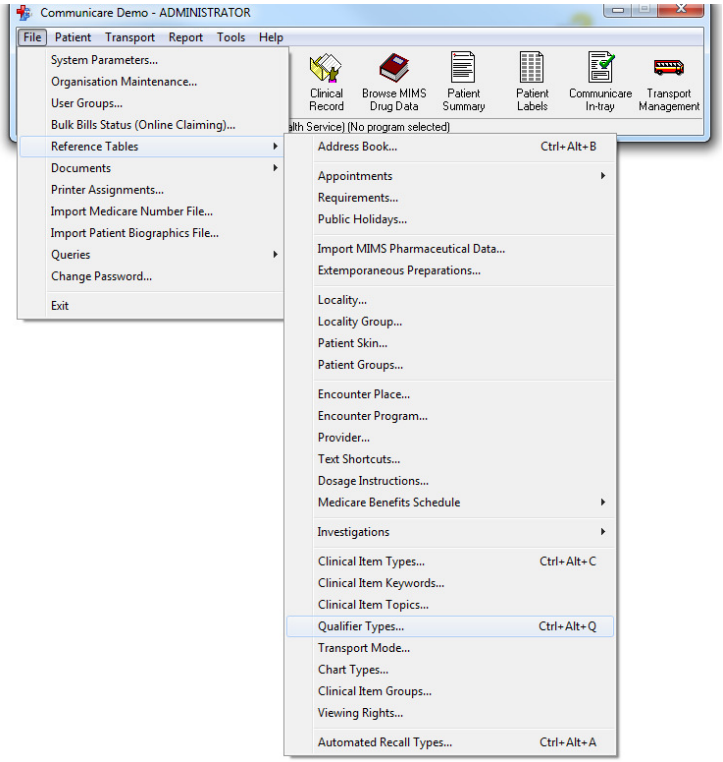


Figure 1: Qualifier Types option

- Locate *Waist Circumference* in the list by typing the first few letters

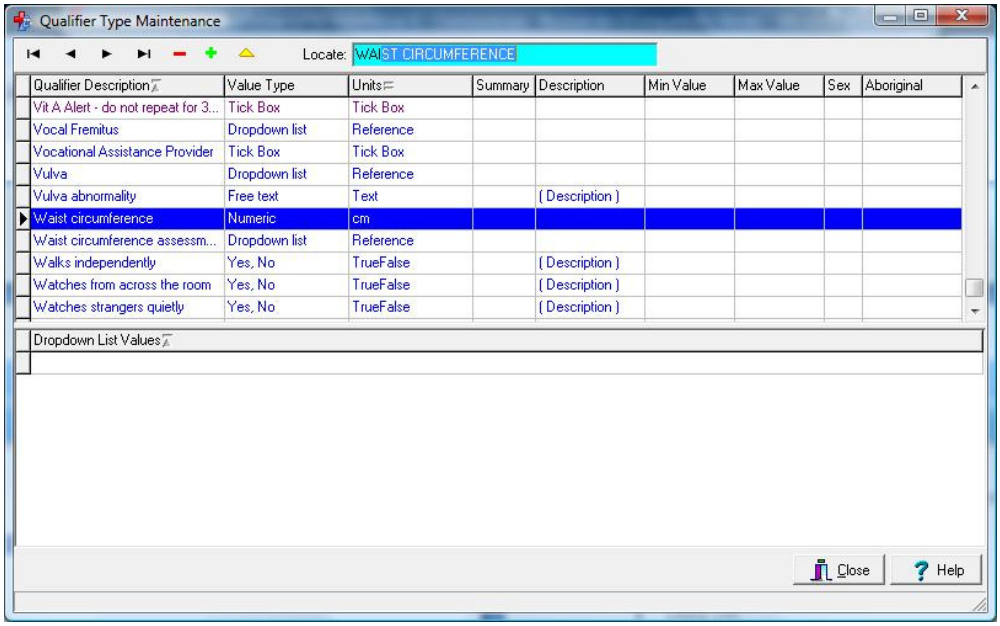


Figure 2: Qualifier Type Maintenance screen

- Right click in the screen to bring up the option 'Show Hidden Columns' (Figure 3) – click this option

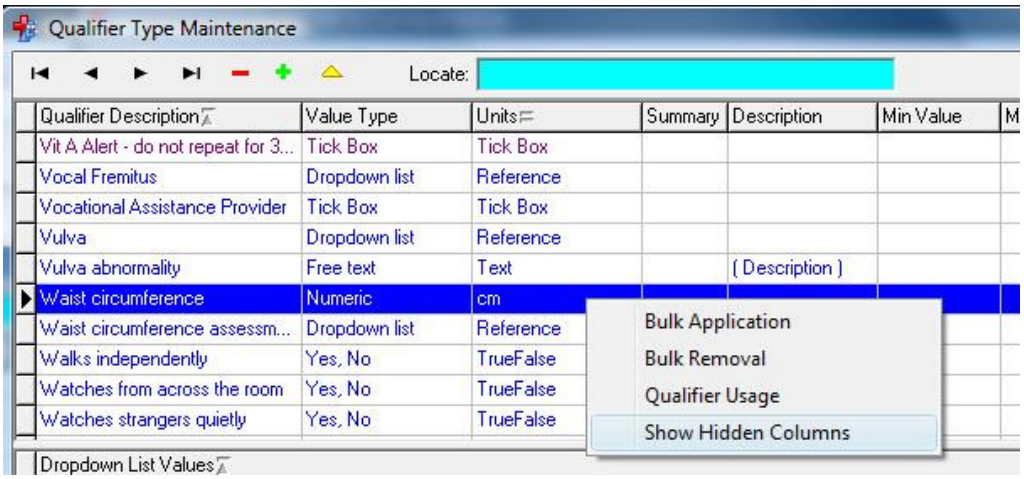
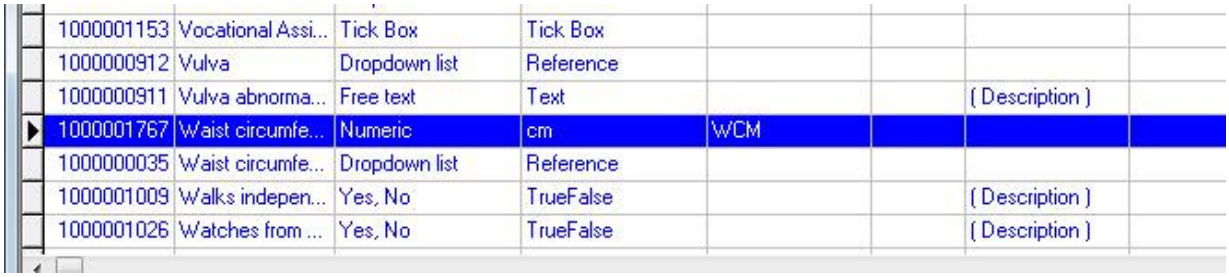


Figure 3: Show Hidden Columns option

- Write down the following values from the extended fields view (Figure 4)
  - *System Code*: WCM
  - *Value Type*: Numeric
  - *Units*: cm



1000001153	Vocational Assi...	Tick Box	Tick Box			
1000000912	Vulva	Dropdown list	Reference			
1000000911	Vulva abnorma...	Free text	Text			(Description)
1000001767	Waist circumfe...	Numeric	cm	WCM		
1000000035	Waist circumfe...	Dropdown list	Reference			
1000001009	Walks indepen...	Yes, No	TrueFalse			(Description)
1000001026	Watches from ...	Yes, No	TrueFalse			(Description)

Figure 4: Qualifier Type Maintenance screen with extended columns

Step 2: From the 'Qualifier Type Maintenance' screen locate the custom qualifier you want to link, e.g. 'Waist Measurement', use the tool bar to add or edit the qualifier.

- Add the appropriate System Code and ensure that the Value Type is the same (Figure 5). Using another value type may give you unpredictable results.

- Click Save

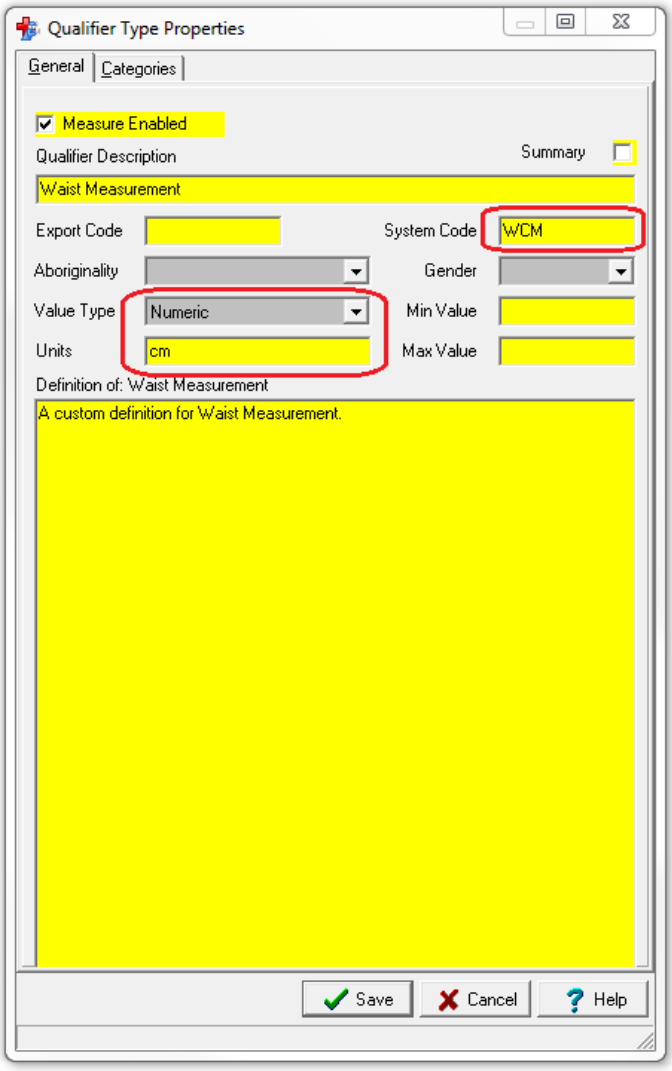


Figure 5: Edit a custom qualifier

Further Information:

The main functionalities of the Qualifier Type Maintenance window are described in the Communicare help file under *System Administration* | *Reference Tables* | *Qualifier Types* topic.